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## Model DR 4300 Circular Chart Recorder Replacement Instruction

### Printed Circuit Assembly Kit (51404453-5XX)

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**Document Number** Form: 43-DR-33-72  
Effective: 4/98  
Supersedes: None

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- Kit Contents** This kit contains one of the following replacement Printed Circuit Assembly (PCA) Kits:
- *Part Number 51404453-501 which includes:*
    - PCA, Record only
    - #6 x 3/8 Plastite Screws (4)
    - Product Manual 44-01-25-14
    - Ferrite Bead Assembly (Part Number 51404702-001)
    - Washer
  - *Part Number 51404453-502 which includes:*
    - PCA, Record and Control with Electromechanical Relays
    - #6 x 3/8 Plastite Screws (4)
    - Solid State Relays (Part Number 30756725-001) (2)
    - Open Collector Output (Part Number 30756679-001) (2)
    - Product Manual 44-01-25-14
    - Ferrite Bead Assembly (Part Number 51404702-001)
    - Washer
  - *Part Number 51404453-505 which includes:*
    - PCA for FM-approved Limit Controller
    - #6 x 3/8 Plastite Screws (4)
    - Product Manual 44-01-25-14
    - Ferrite Bead Assembly (Part Number 51404702-001)
    - Washer
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**Summary**

Enclosed is a new printed circuit assembly for your DR4300 recorder. Use the following procedure to install the PCA.

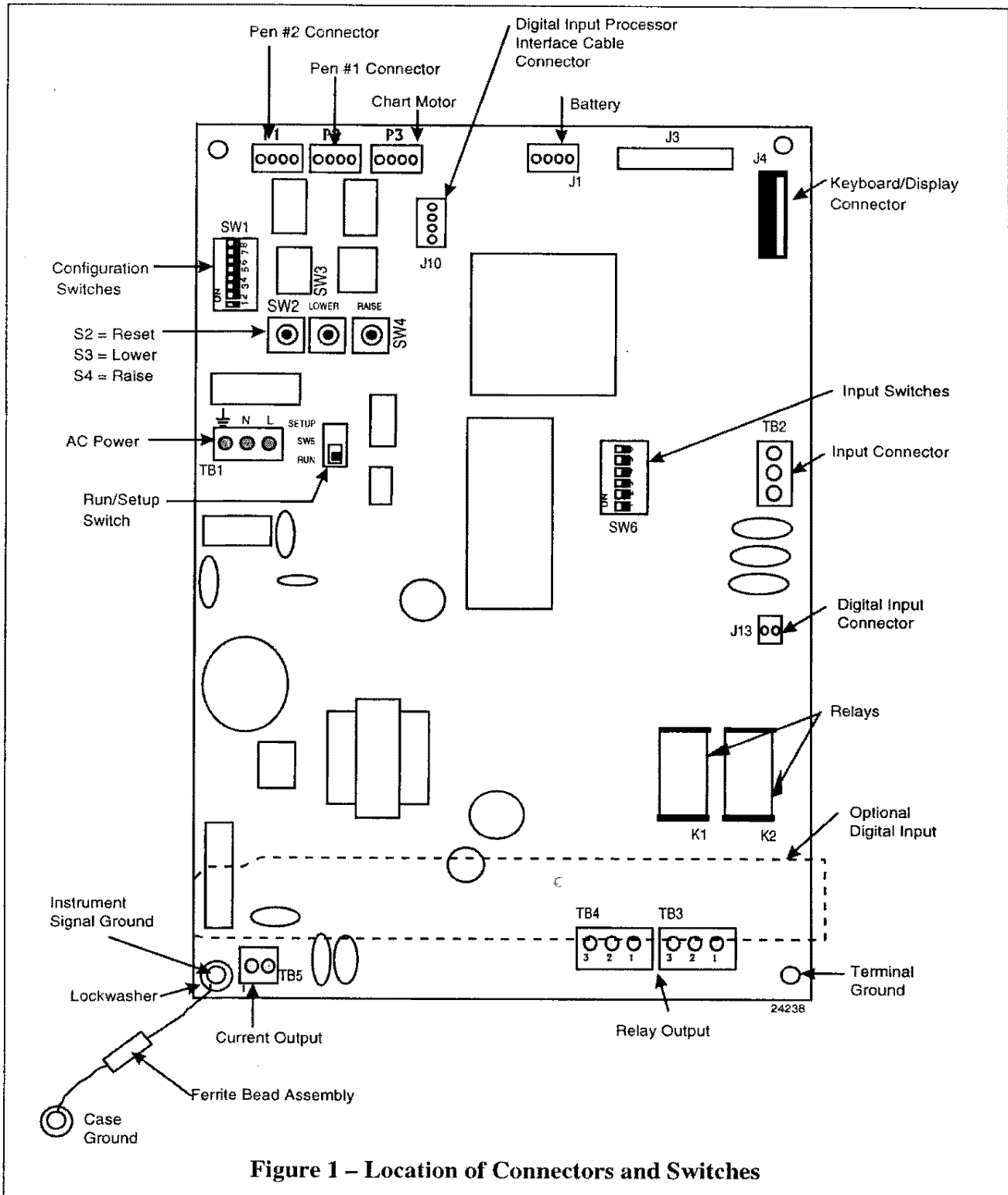
**WARNING**

Never access components inside the case with power applied.

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**Component Location** Refer to Figure 1 for the location of PCA connectors and switches, and Table 1 for the installation procedure.



**Figure 1 - Location of Connectors and Switches**

**Installation Procedure** Follow the procedure in Table 1 to install the new printed circuit assembly in your recorder.

**Table 1 – Printed Circuit Assembly Installation**

Step	Action
1	Power down the recorder. Open the chart door and swing the chart plate out. This permits access to the main printed circuit assembly (PCA).
2	<p>Tag and disconnect all the cable plugs and removable terminal blocks from the connectors on the PCA.</p> <p>Note the position of all dip switches for configuration and input.</p> <p>If the optional Digital I/O board is installed, disconnect and remove the board. (To remove the digital input board, use needle-nose pliers to squeeze together the split top of the stand-off on the left and slide the PCA off the stand-off. Repeat for center and right stand-offs.)</p> <p>Disconnect transmitter power wiring from TB1.</p>
3	Remove the screws from the four corners of the PCA and lift it from the case.
4	Remove K1 and K2 relays and install either the Solid State Relays or Open Collector Output if they were on the old PCA.
5	<p>Set switches on the new PCA to match those on the PCA being removed.</p> <p>If the PCA you are installing is for the FM-approved Limit Controller, be sure to remove resistor R126.</p>
6	Position the new PCA in the case and secure with the screws.
7	Replace the cable plugs and terminal blocks disconnected in Step 2, re-install the Digital I/O board (if applicable), and reconnect transmitter power wiring.
8	If the recorder has a display, reconfigure the recorder using the procedure in Section 4 of the DR4300 Product Manual, 44-01-25-14.

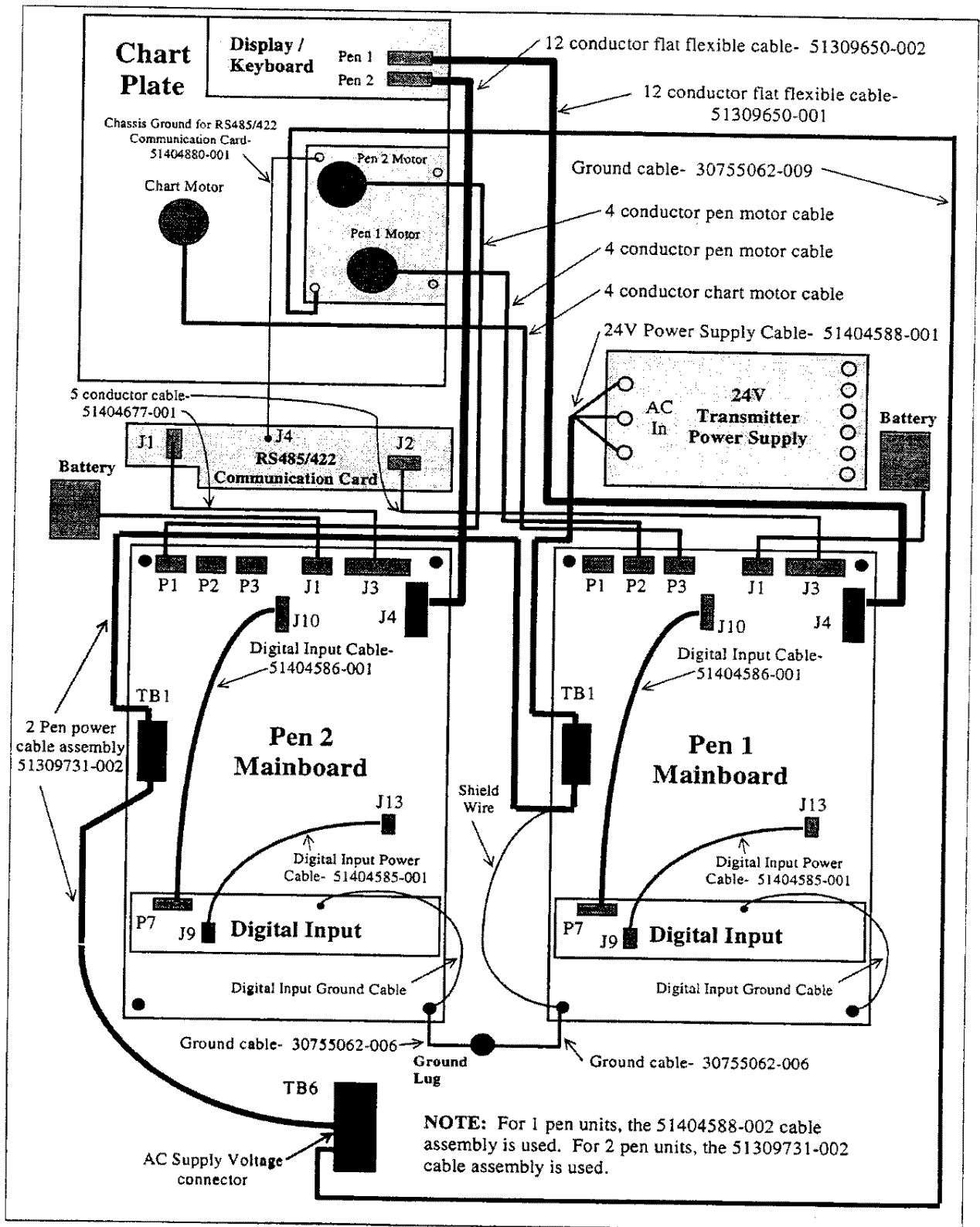


Figure 10-5 DR4300 Recorder (Non-CE Mark) – Internal Cabling Diagram

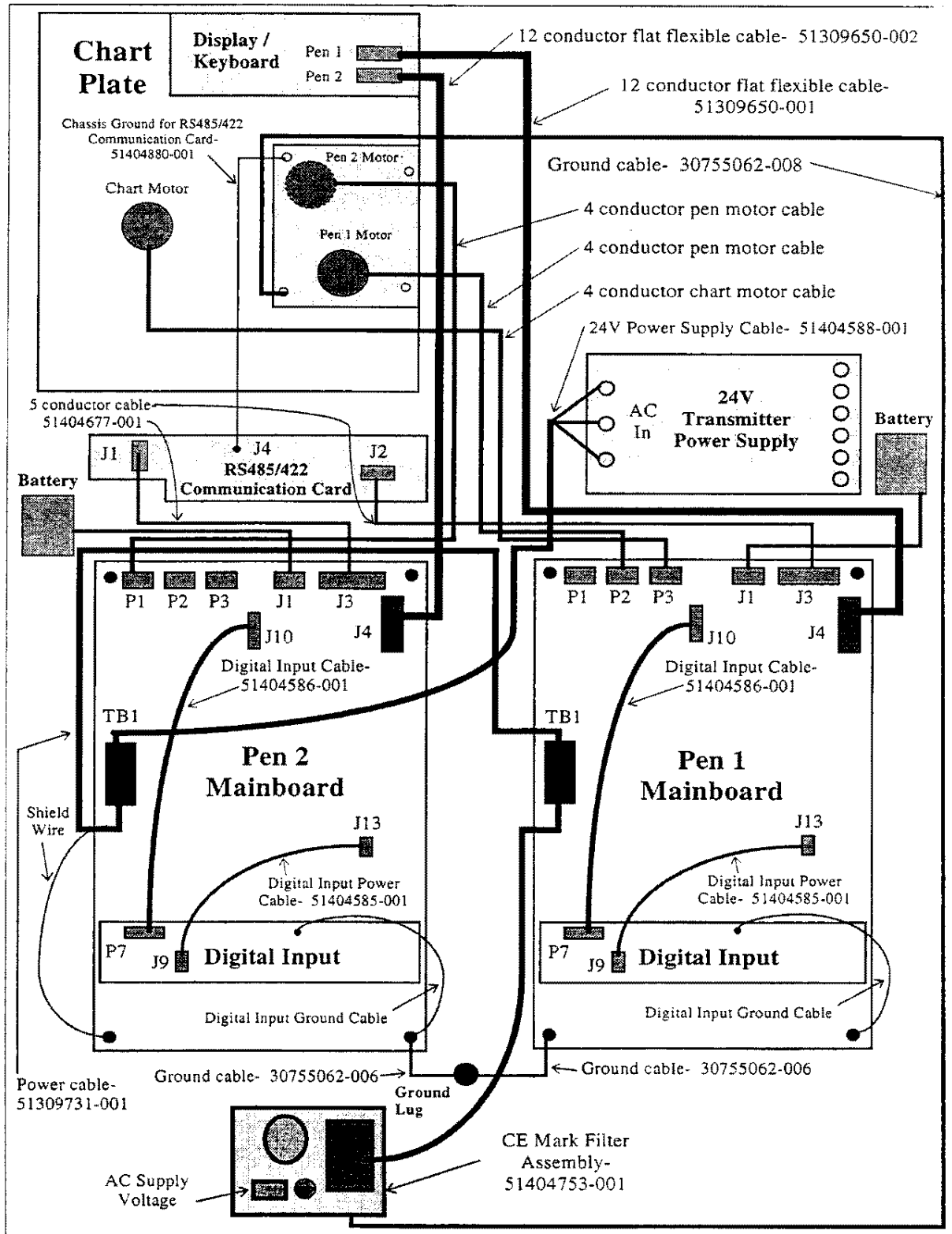


Figure 10-4 DR4300 Recorder (CE Mark) – Internal Cabling Diagram